

(51) International Patent Classification:
A62C 3/16 (2006.01)(21) International Application Number:
PCT/EP2021/081364(22) International Filing Date:
11 November 2021 (11.11.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
16/951,226 18 November 2020 (18.11.2020) US(71) Applicant: **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; New Orchard Road, Armonk, New York, 10504 (US).(71) Applicant (for MG only): **IBM UNITED KINGDOM LIMITED** [GB/GB]; PO Box 41, North Harbour, Portsmouth, Hampshire PO6 3AU (GB).(72) Inventors: **WERNER, John**; IBM CORPORATION, 2455 SOUTH ROAD, POUGHKEEPSIE, New York 12601-5400 (US). **SINGER, Noah**; IBM CORPORATION, 2455 SOUTH ROAD, POUGHKEEPSIE, New York 12601-5400 (US). **TOROK, John**; IBM CORPORATION, 2455 SOUTH ROAD, POUGHKEEPSIE, New York 12601-5400 (US).York 12601-5400 (US). **TSFASMAN, Arkadiy**; IBM CORPORATION, 2455 SOUTH ROAD, POUGHKEEPSIE, New York 12601-5400 (US).(74) Agent: **SHAW, Anita**; IBM UNITED KINGDOM LIMITED, INTELLECTUAL PROPERTY LAW, HURSLEY PARK, HURSLEY, WINCHESTER Hampshire SO21 2JN (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,

(54) Title: BATTERY FIRE SUPPRESSANT SYSTEM

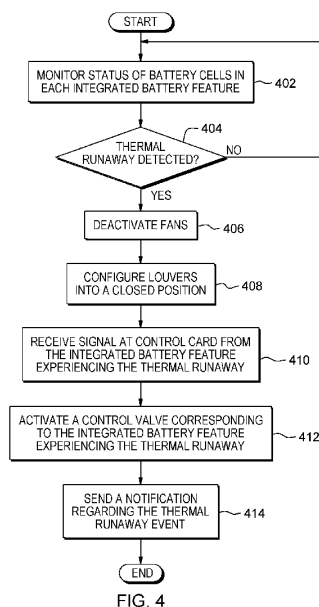


FIG. 4

(57) Abstract: An apparatus for a fire suppressant system on a server rack includes an integrated battery feature, a manifold, a conduit, and a control card, where the integrated battery feature includes a plurality of battery cells in an enclosure. A first end of the conduit coupled to a control valve on the manifold and a second end of the conduit coupled to the integrated battery feature. The control card configured to open the control valve on the manifold, where the control valve is configured to release a fire suppressant into the enclosure of the integrated battery feature. In one embodiment, the fire suppressant is contained within a pressurized fire suppressant reservoir mounted on the server rack. In another embodiment, the fire suppressant is a cooling fluid diverted from a radiator cooling unit on the server rack.

MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

30 June 2022 (30.06.2022)